FLEX 330/400/500 XMS - XMI

Technical data

POWER SOURCE	FLEX 330 XMS/XMI	FLEX 400 XMS/XMI	FLEX 500 XMS/XMI
Mains voltage	3 x 400	3 x 400	3 x 400
Fuse	16 A	20 A	35 A
Open circuit consumption	35 Watt	35 Watt	35 Watt
Maximum current	19.8 A	25.7 A	44,9 A
Efficiency	0.99	0.99	0.99
Open circuit voltage MMA	80 - 85 V	80 - 85 V	90 - 95 V
Duty cycle, 100% at 40°	250 A	300 A	400 A
Duty cycle, 100% at 20°	270 A	330 A	500 A
Duty cycle, 60% at 40°	280 A	350 A	450 A
Duty cycle, 60% at 20°	300 A	400 A	-
Current range DC	40 - 330 A	40 - 400 A	40 - 400 A
Application class	S	S	S
Protection class	IP 23	IP 23	IP 23
Norm	EN/IEC60974-1	EN/IEC60974-1	EN/IEC60974-1
	EN/IEC60974-10	EN/IEC60974-10	EN/IEC60974-10
Dimensions L x W x H	72 x 28 x 54 cm	72 x 28 x 54 cm	72 x 28 x 54 cm
Weight (incl. supply cable)	58 kg	58 kg	59 kg

WIRE FEED UNITS	MWF 15	MWF 25	MPF 10 (intermediary station)
Connection voltage	42 VAC +/- 15%	42 VAC +/- 15%	0 - 40 VDC
Connection power	175 W	175 W	
Duty cycle, 60%	550 A	550 A	550 A
Wire feed speed	1 - 24 m/min.	1 - 24 m/min.	1 - 24 m/min.
Wire reel diameter	300 mm 300 mm		
Wire diameter	0.6 - 2.4 mm	0.6 - 2.4 mm	0.6 - 2.4 mm
Protection class	IP 23	IP 23	IP 23
Dimensions L x W x H	68 x 22 x 49 cm	37 x 27.5 x 23,5 cm	53 x 28 x 19.5 cm
Weight	22 kg	12.7 kg	11.6 kg

COOLING UNIT	MCU 1250
Connection voltage	400 V +/- 15 %
Max. open circuit consumption	5 W
Cooling power	1250 W
Tank volume	4
Flow at 1.2 bar/60°C	1.75 l/min.
Max. pressure	2.5 - 3.0 bar
Norm	EN/IEC60974-2
Dimension H x W x L	70 x 30 x 22 cm
Weight (excl. cooling liquid)	16 kg

We reserve the right to make changes.

England:

MIGATRONIC WELDING
EQUIPMENT LTD
21 Jubilee Drive, Belton Park,
Loughborough
Leicestershire LE11 5XS - UK
Tel: (+44) 01509/267499
Fax: (+44) 01509/231959
Service department:
(+44) 01509/211492

Svejsemaskinefabrikken Migatronic A/S

Aggersundvej 33, Postboks 206 DK-9690 Fjerritslev, Denmark Tel: (+45) 96 500 600 Telefax: (+45) 96 500 601 Homepage: www.migatronic.com

MIGATRONIC

FLEX 330/400 & FLEX 500

THE EASY AND PRECISE CHOICE OF WELDING MACHINE



"Switch on, press and weld"

FLEX XMS without pulse for synergic MIG or MMA welding

FLEX XMI for synergic MIG pulse in all materials

FLEX XMI Auto, the automakers' preferred allround machine

Future safeguarded options

FLEX XMI with DPC® - Dynamic Pulse Control

A view into the MWF 15 wire feed unit.

Migatronic's portable and compact MWF 25

- an allround workhorse for quality welding without pulse

You have never seen such userfriendly options combined in one welding machine

The FLEX 330/400/500 XMS is Migatronic's third generation of workhorses with inverter power source. Without pulse and with synergic one-knob control of the most important parameter settings, the FLEX XMS is the safe choice for both manual programming, synergic MIG and MMA welding all materials; from mild steel to stainless and aluminium. The FLEX XMS has been developed for quality welding operations according to welding procedures using all kinds of solid and gas protected flux cored wires.



MIG/MAG welding.



The FLEX XMS control panel with overlay foil and digital reading of key parameters.



"Switch on, press and weld", the

Migatronic vision about userfriendly control, has been made

even more visible in the FLEX

330/400/500 range: the control

panel is equipped with a detach-

10 most frequently used standard

possible to set all parameters, but

control on the torch handle it is

important parameters as well as

sequence control several welding

meters are adjustable and can be

programme, such as choke, slope

Separate wire feed unit

detachable wire feed unit, either

closed MWF 15 or compact MWF

25. Both wire feed units are fit-

ted with the stable four-roll wire feed system making it possible to

weld up to 50 m from the power

source. The XMS is available with

intermediary station, yard unit for 5 kilogram wire coils and push-pull torch for safe feeding

of soft wire types.

The FLEX 330/400/500 XMS is

supplied with a separate.

transferred from programme to

able overlay foil describing the

available on the individual inset

programmes of the machine

From the control panel it is

from the synergic one-knob

also possible to set the most

parameters. All synergic para-

and crater-filling.

Future-safeguarding

high quality welding operations in the workshop or from the service van without use of pulse. If required, the future-safeguarded software will allow the welder to upgrade the welding machine to pulse welding.

The multitude of options

The XMS generation is supplied for air-cooled or water-cooled torches and a standby function for the benefit of the environment and the life of the machine is standard equipment.

The FLEX 330/400/500 XMS is approved for outdoor work and power can be supplied from an asynchronous diesel power generator.

The large range of accessories different types of trolleys, etc.

The XMS versions can be used along with Migatronic InfoWeld for continuous documentation of the welding operation with printout or storage on pc.

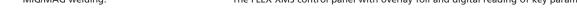
The FLEX 330/400/500 XMS is for

includes: relief arm, push-pull kit, intermediary station, autotrafo,

SPECIALS

- "Switch on, press and weld". It is as simple as that
- Manual programming, synergic MIG or MMA welding
- Synergic one-knob control from the torch handle
- Possibility of user's own programmes
- Mild steel, stainless or aluminium with all types of wires
- Upgradeable to pulse welding





FLEX 330/400/500 XMI, specifically for stainless, aluminium alloys and MIG brazing

Also the safe choice of MIG pulse for documentation and automatization

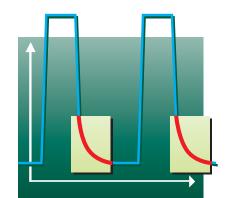
> The FLEX 330/400/500 XMI is the flexible and intelligent welding machine for both pulse, synergic MIG and MMA welding. Developed specifically for stainless steel, aluminium and aluminium alloys, but also suitable for MIG brazing high tensile steels with primed or galvanised surfaces. Being a stepless adjustable power inverter with synergic one-knob control of the most important settings and sequence control of several welding parameters through the torch, the FLEX XMI combines flexibility with welding quality and user-friendliness.

The FLEX XMI holds up to 50 welding programmes; a combination of Migatronic's programme library, user's own programmes and adjustment of factory settings. Continuous updating of the programme package is also possible.



Two FLEX XMI machines with robot interface and Fanuc robots.

DPC® (Dynamic Pulse Control) function ensures a stable arc, excellent penetration and a minimum of weld spatter.



Free, safe choice

The detachable overlay foil on the control panel shows the 10 most frequently used programmes and reflects the user-friendliness of the machine. Programmes are chosen by means of the individual inset card and the overlay foil does not prevent access to the remaining programmes. It is like a library: the welder has free access from shelves but puts in his carrier bag only what he actually needs. All synergic parameters are adjustable and can be transferred from programme to programme, such as pulse, choke, slope and crater-filling.



The FLEX XMI machines are equipped with the revolutionary DPC®, Dynamic Pulse Control, setting new standards in pulse welding along with the programme control unit. The secret behind DPC® is the precise control of the arc energy. The arc is stable in all pulse programmes, and especially when it comes to welding thin stainless or aluminium workpieces, the DPC® function gives better welding

Owing to its precise parameter settings and uniform heat input the FLEX XMI complies with welding procedures, and weld spatter is reduced to a minimum owing to synergic MIG pulse in all materials.

The FLEX 330/400/500 is supplied with a separate, detachable wire feed unit, either closed MWF 15 or compact MWF 25. Both wire feed units are fitted with the stable four-roll wire feed system making it possible to weld up to 50 m from the power source.



with sliding bracket for large working range.

The multitude of options

The XMI version is supplied for air-cooled or water-cooled torches and a standby function for the benefit of the environment and the life of the machine is standard equipment. The FLEX 330/400 range is approved for outdoor work and power can be supplied from an asynchronous diesel power generator.

The large range of accessories includes: relief arm, push-pull kit, intermediary station, autotrafo, different types of trolleys, etc.



The Migatronic MPF 10 intermediary station

The FLEX 330/400/500 range is the third generation of Migatronic workhorses with inverter power source, and the XMI version is the safe choice of welding machine when it comes to use of MIG or MIG pulse in connection with documentation and automatization.



SPECIALS

- "Switch on, press and weld"
- Synergic MIG pulse in all materials
- Synergic one-knob control of settings from the torch handle
- Suitable for MIG brazing high tensile steels with primed or galvanised surfaces
- Future-safeguarded programme package
- Possibility of user's own programmes



FLEX 330 Auto - the MIG brazing specialist for the automotive industry



Repair of side member by means of MIG brazing.

aw

IN#W 4130

Many year's co-operation with international and leading auto manufacturers, such as GM, Peugeot, Citroën, VW, Daimler-Chrysler and Ferrari, has established Migatronic's position as the welding specialist of the automotive industry. The increased use of aluminium and high tensile steels with primed or galvanised surfaces makes heavy demands on joining methods maintaining optimum corrosion and strength properties and reducing post-treatment to a minimum.

The FLEX 330 Auto masters traditional CO₂ welding, pulse welding and MIG brazing, and auto manufacturers prefer this approved welding machine for their importers' car body repair shops.

The FLEX 330 Auto is used in "multi-purpose" repair shops as an allround machine for body and container construction as well as light industry welding operations or as a special welding machine with programme package for individual car makes.

FLEX AUTO - the obvious choice for cars with aluminium car body.

frequently used programmes and quick access to the other programmes. It is also possible for the welder to choose his own programmes.

From the synergic one-knob control on the torch handle it is possible to set the most important parameters and to sequence control several welding parameters. Separate wire feed unit - large working range.

The newly developed, detachable

with an overview of the 10 most

overlay foil provides the welder

SPECIALS

- "Switch on, press and weld"
- Masters CO₂ welding, pulse and MIG brazing
- The automaker's approved choice
- FLEX 330
 Auto also for coated electrodes
- Future-safeguarded programme package



					7.5	
	XMI	XMS	00	00 ø		\square \square \square
	1	1	Fe	0.8 mm	CO₂	
	2	2	Fe	0.8 mm		
					Ar/CO ₂	
	3	3	Fe	1.0 mm	CO ₂	
	4	4	Fe	1.0 mm	Ar/CO ₂	
	5	5	Fe	1.2 mm	CO ₂	
	6	6	Fe	1.2 mm	Ar/CO ₂	
	7	7	Fe			
	8	8	Fe	1.6 mm	Ar/CO ₂	
	9		Fe	0.8 mm	Ar/CO ₂	
	10		Fe	1.0 mm	Ar/CO ₂	
	11		Fe	1.2 mm	Ar/CO ₂	
	12		Fe	1.6 mm	Ar/CO ₂	
	13	13	CrNi	0.8 mm	Ar/CO ₂	
	14	14	CrNi	1.0 mm	Ar/CO ₂	
	15	15	CrNi	1.2 mm	Ar/CO ₂	
	16	16	CrNi	1.6 mm	Ar/CO ₂	
	17	10	CrNi	0.8 mm	Ar/CO ₂	
	18		CrNi	1.0 mm	Ar/CO ₂	
	19		CrNi	1.2 mm	Ar/CO ₂	
	20		CrNi	1.6 mm	Ar/CO ₂	
	21	21	AISi 3-5	1.0 mm	Ar	
	22	22	AISi 3-5	1.2 mm	Ar	
	23	23	AISi 3-5	1.6 mm	Ar	
	24		AISi 3-5	1.0 mm	Ar	
	25		AISi 3-5	1.2 mm	Ar	
	26		AISi 3-5	1.6 mm	Ar	
	27	27	AIMg 3-5	1.0 mm	Ar	
	28	28	AIMg 3-5	1.2 mm	Ar	
	29	29	AIMg 3-5	1.6 mm	Ar	
	30		AIMg 3-5	1.0 mm	Ar	
	31		AIMg 3-5	1.2 mm	Ar	
	32		AIMg 3-5	1.6 mm	Ar	
	33	33	Fe Flux/metal	1.2 mm	Ar/CO ₂	
	34	34	Fe Flux/metal	1.6 mm	Ar/CO ₂	
	35	35	Fe Flux/rutile			
				1.2 mm	Ar/CO ₂	
	36	36	Fe Flux/rutile	1.6 mm	Ar/CO ₂	
	37	37	CrNi/flux	1.2 mm	Ar/CO ₂	
	38	38	CrNi/flux	1.2 mm	CO ₂	
	39	39	CrNi/flux	1.6 mm	Ar/CO ₂	
	40	40	CrNi/flux	1.6 mm	CO ₂	
	41	41	Fe Flux/metal	1.2 mm	Ar/CO ₂	
			with Ni			
	42		ALSi 12	1.0 mm	Ar	
	43		ALSi 12	1.2 mm	Ar	
	44		CuAl 8	1.0 mm	Ar	
	45		CuAl 8	1.2 mm	Ar	
	46		CuSi 3	1.0 mm	Ar	
	47		CuSi 3			
	48		Super Duplex	1.0 mm	Ar/He	
Λ						
	AU	JTO 	00	00 ø		
0-000		o~ -				
		1	Fe SG 2/SG 3	0.6 mm	CO ₂	
		2	Fe SG 2/SG 3	0.6 mm	Ar/CO ₂	
		3	Fe SG 2/SG 3	0.8 mm	CO ₂	
		4	Fe SG 2/SG 3	0.8 mm	Ar/CO ₂	

			Λ	
AUTO	00	0 0 ø		
1	Fe SG 2/SG 3	0.6 mm	CO ₂	
2	Fe SG 2/SG 3	0.6 mm	Ar/CO ₂	
3	Fe SG 2/SG 3	0.8 mm	CO ₂	
4	Fe SG 2/SG 3	0.8 mm	Ar/CO ₂	
5	Fe SG 2/SG 3	1.0 mm	Ar/CO ₂	
6	Fe SG 2/SG 3	1.0 mm	Ar/CO ₂	
7	CuSi 3 MIG brazing	0.8 mm	Ar	
8	CuSi 3 MIG brazing	0.8 mm	Ar	
9	CuSi 3 MIG brazing	1.0 mm	Ar	
10	CuSi 3 MIG brazing	1.0 mm	Ar	
11	CuAl 8 MIG brazing	0.8 mm	Ar	
12	CuAl 8 MIG brazing	0.8 mm	Ar	
13	CuAl 8 MIG brazing	1.0 mm	Ar	
14	CuAl 8 MIG brazing	1.0 mm	Ar	
15	AISi 5	1.0 mm	Ar	
16	AISi 5	1.2 mm	Ar	
17	AlSi 12	1.0 mm	Ar	
18	AlSi 12	1.2 mm	Ar	
19	AIMg 5	1.0 mm	Ar	
20	AIMq 5	1.2 mm	Ar	
21	316 Lsi	0.8 mm	Ar/CO ₂	
22	316 Lsi	1.0 mm	Ar/CO ₂	_

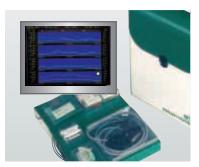
Accessories



Torch holder



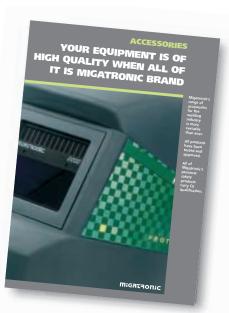
Sliding bracket with wheels for MWF 15.



Infoweld for documentation



Suspension kit for conveyor roller.



Complete range of accessories - please contact your local Migatronic dealer.